

PENKO Engineering B.V.

Your Partner for Fully Engineered Factory Solutions



How to...
Install custom software in a FLEX 2100,
FLEX or FLEX 2ch. – 4ch.



an ETC Company

PENKO How to...

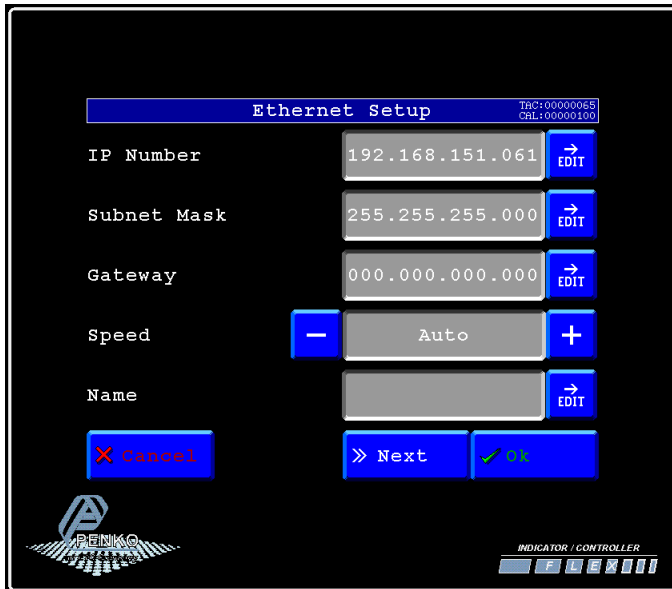
Install custom software in a FLEX 2100, FLEX or FLEX 2ch. – 4ch.

Installing custom software can only be done using Ethernet.

Use a crossover Ethernet cable to connect the FLEX directly to your PC or use a switch.

First of all you will need to know the IP address of the FLEX to connect it to the PC. Go to **Menu → System Setup → Port Setup → Ethernet Setup**.

Here you can see the IP Address.

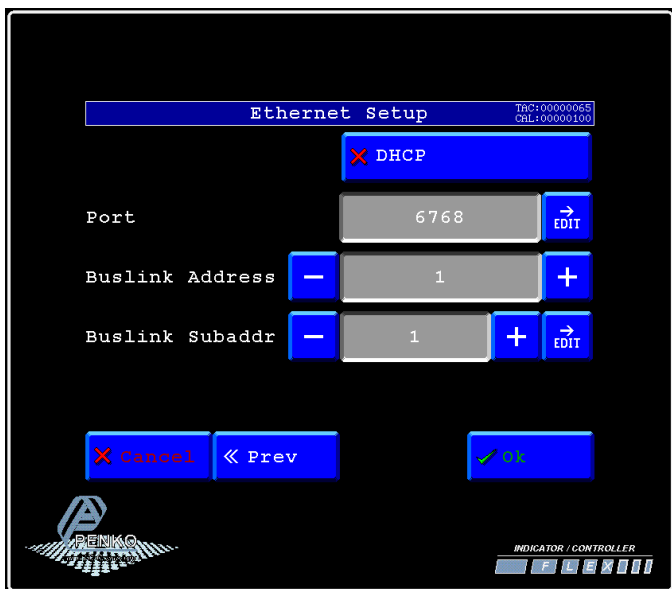


The screenshot shows the 'Ethernet Setup' menu on a device. At the top, it displays 'Ethernet Setup' and two MAC addresses: 'TAC:00000065' and 'CHL:00000100'. The menu contains the following fields and controls:

- IP Number:** 192.168.151.061 with an 'EDIT' button.
- Subnet Mask:** 255.255.255.000 with an 'EDIT' button.
- Gateway:** 000.000.000.000 with an 'EDIT' button.
- Speed:** A slider set to 'Auto' with '-' and '+' buttons.
- Name:** An empty text field with an 'EDIT' button.
- Navigation:** 'Cancel', '>> Next', and 'OK' buttons.

The bottom of the screen features the PENKO logo and the text 'INDICATOR / CONTROLLER' above a row of function keys: F, E, X, I, T.

Press **Next** to check the port, set it to 6768 and click **Ok**.



The screenshot shows the 'Ethernet Setup' menu with the 'DHCP' option disabled (indicated by a red 'X'). The 'Port' field is set to 6768. The 'Buslink Address' and 'Buslink Subaddr' fields are both set to 1. The navigation buttons are 'Cancel', '<< Prev', and 'OK'.

The bottom of the screen features the PENKO logo and the text 'INDICATOR / CONTROLLER' above a row of function keys: F, E, X, I, T.

Press **Home** to return to the main screen.

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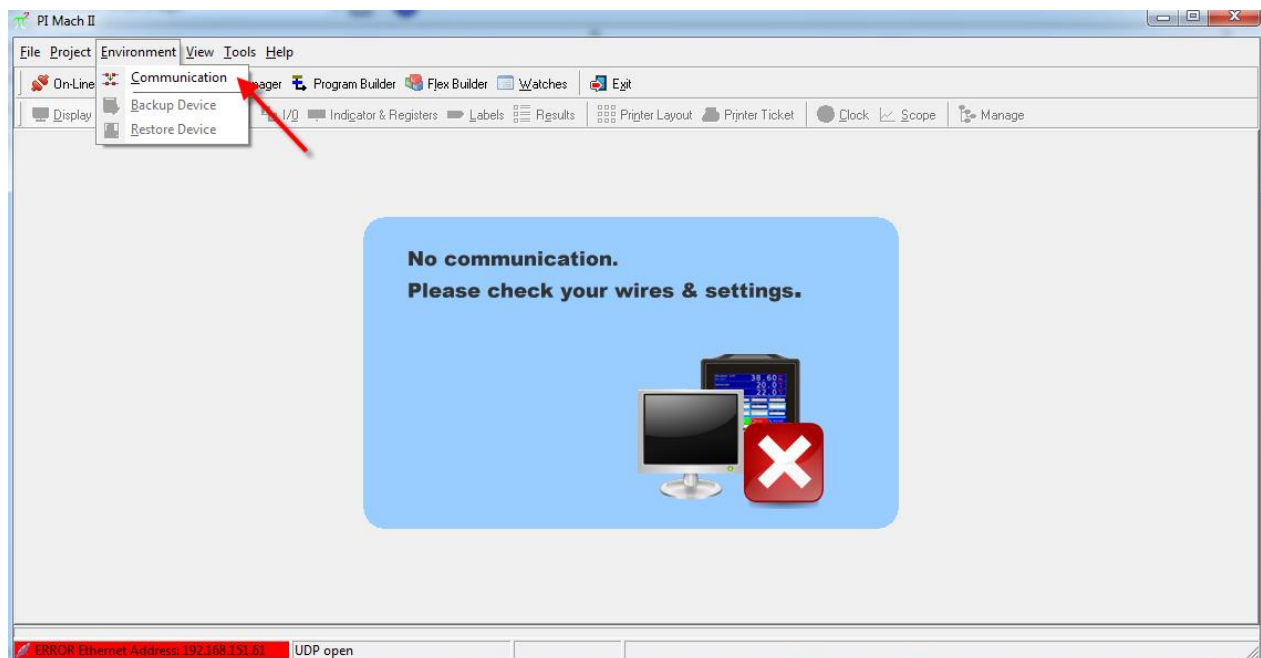
Rename the file you received via E-mail from **filename.txt** to **filename.zip**

Open the filename.zip and extract it into a selected folder.

Open Pi Mach II.exe

Code Snippets	4-10-2013 16:17	Bestandsmap	
Config	4-10-2013 16:17	Bestandsmap	
Export	19-8-2013 15:56	Bestandsmap	
FlexBuilder Library	4-10-2013 16:17	Bestandsmap	
FlexBuilder Projects	4-10-2013 16:17	Bestandsmap	
Help	19-8-2013 15:56	Bestandsmap	
Program Data	4-10-2013 16:18	Bestandsmap	
Program Data_6770	4-10-2013 16:18	Bestandsmap	
Template	19-8-2013 15:56	Bestandsmap	
130819.txt	19-8-2013 15:59	Tekstdocument	1 kB
FlexDisplay.res1	19-8-2013 15:57	RES1-bestand	93 kB
FlexDisplay.res2	19-8-2013 16:00	RES2-bestand	130 kB
Pi Mach II.exe	28-5-2013 16:47	Toepassing	8.044 kB
ResourceTemplate.bin	1-10-2009 9:44	BIN-bestand	81 kB

Click on **Environment** and on **Communication** to set up the communication.

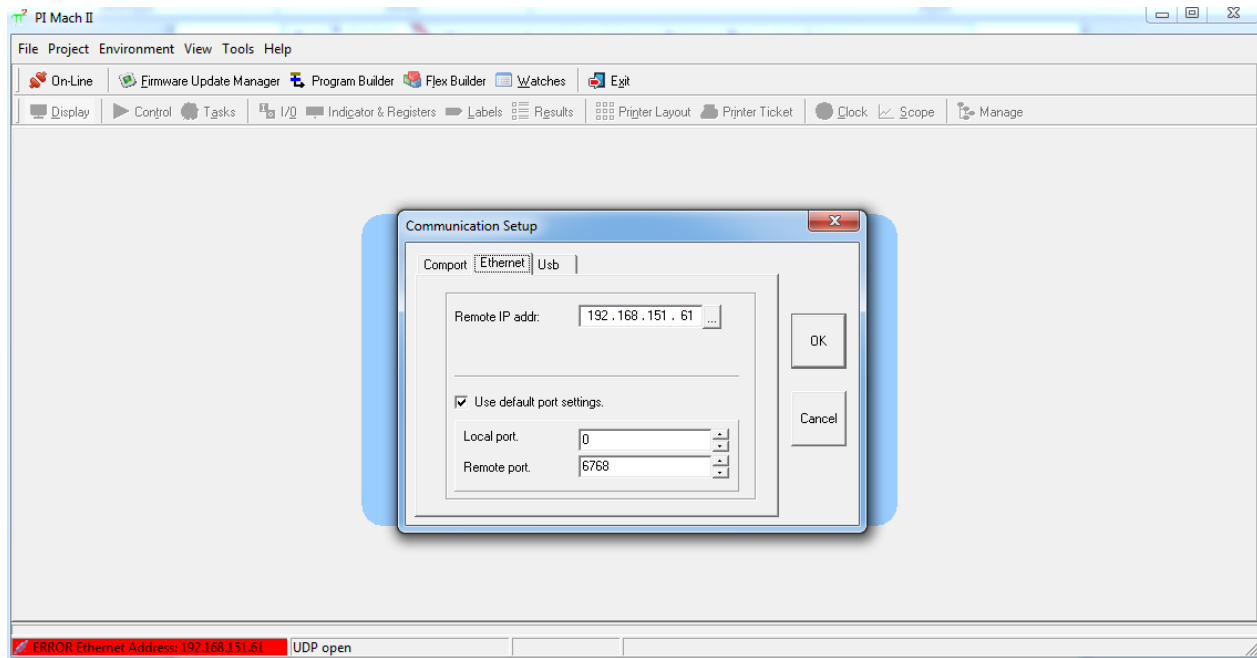


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A popup screen will appear to set the communication.

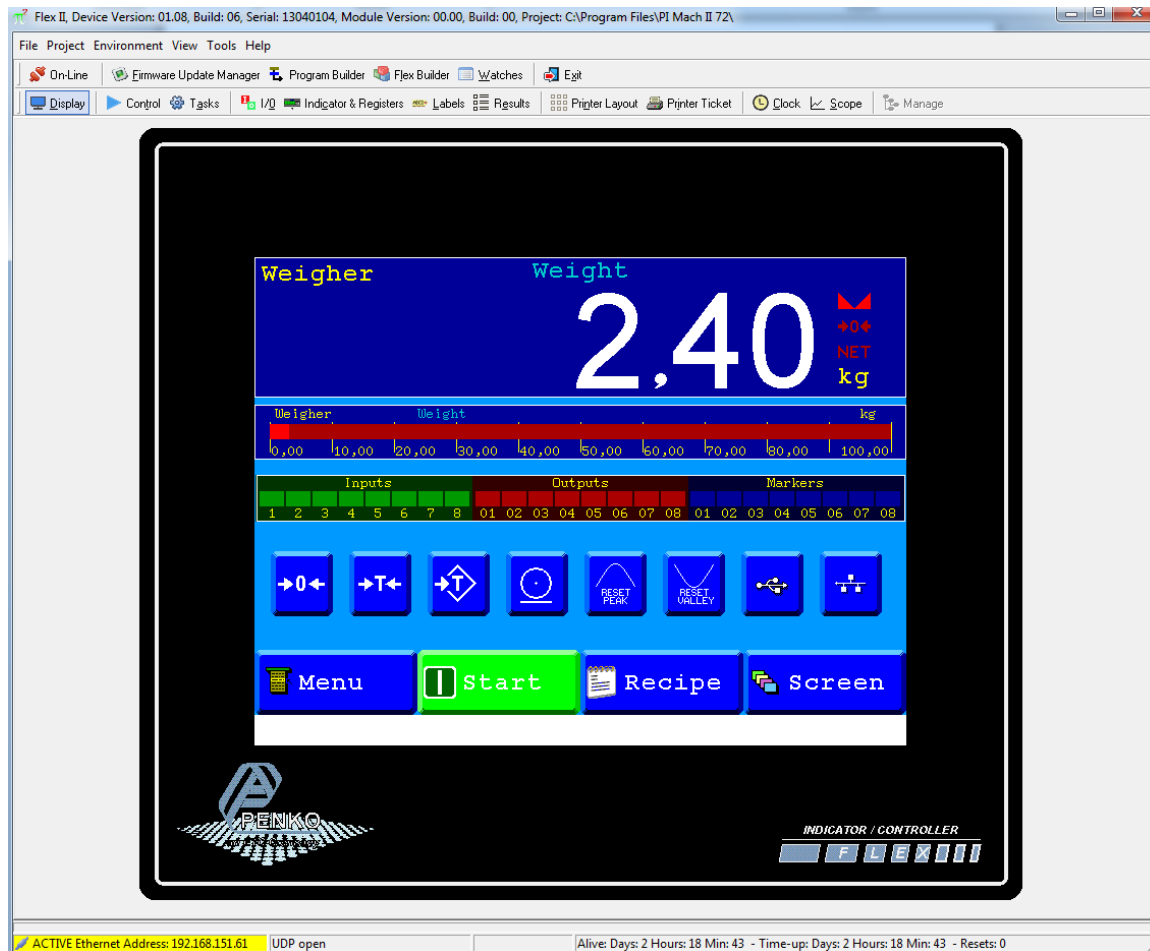
Set up the **Remote IP address, Local port and Remote port** the same as the settings on the FLEX en Click **OK**.



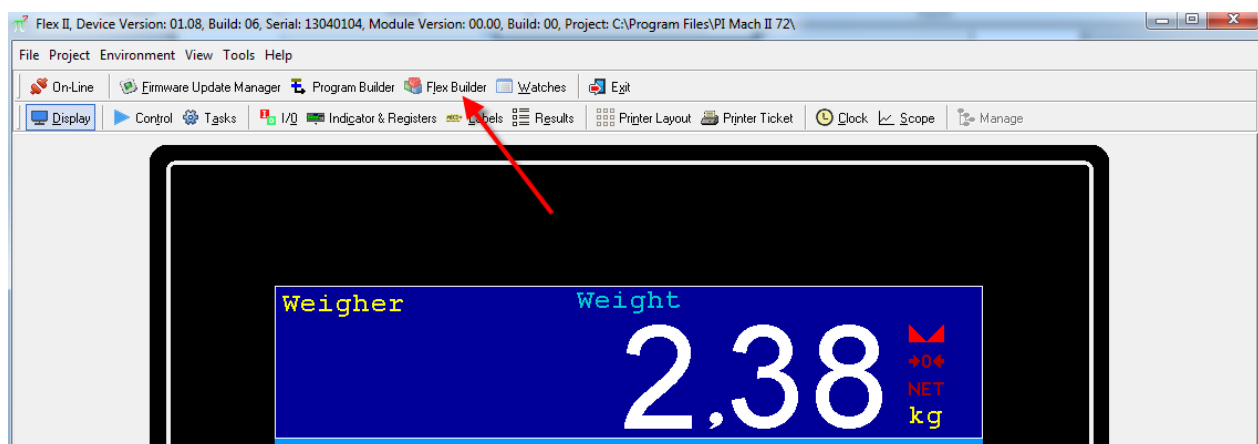
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Now you should have connection with your FLEX.



Click on **FLEX Builder** (this may take a while to open).

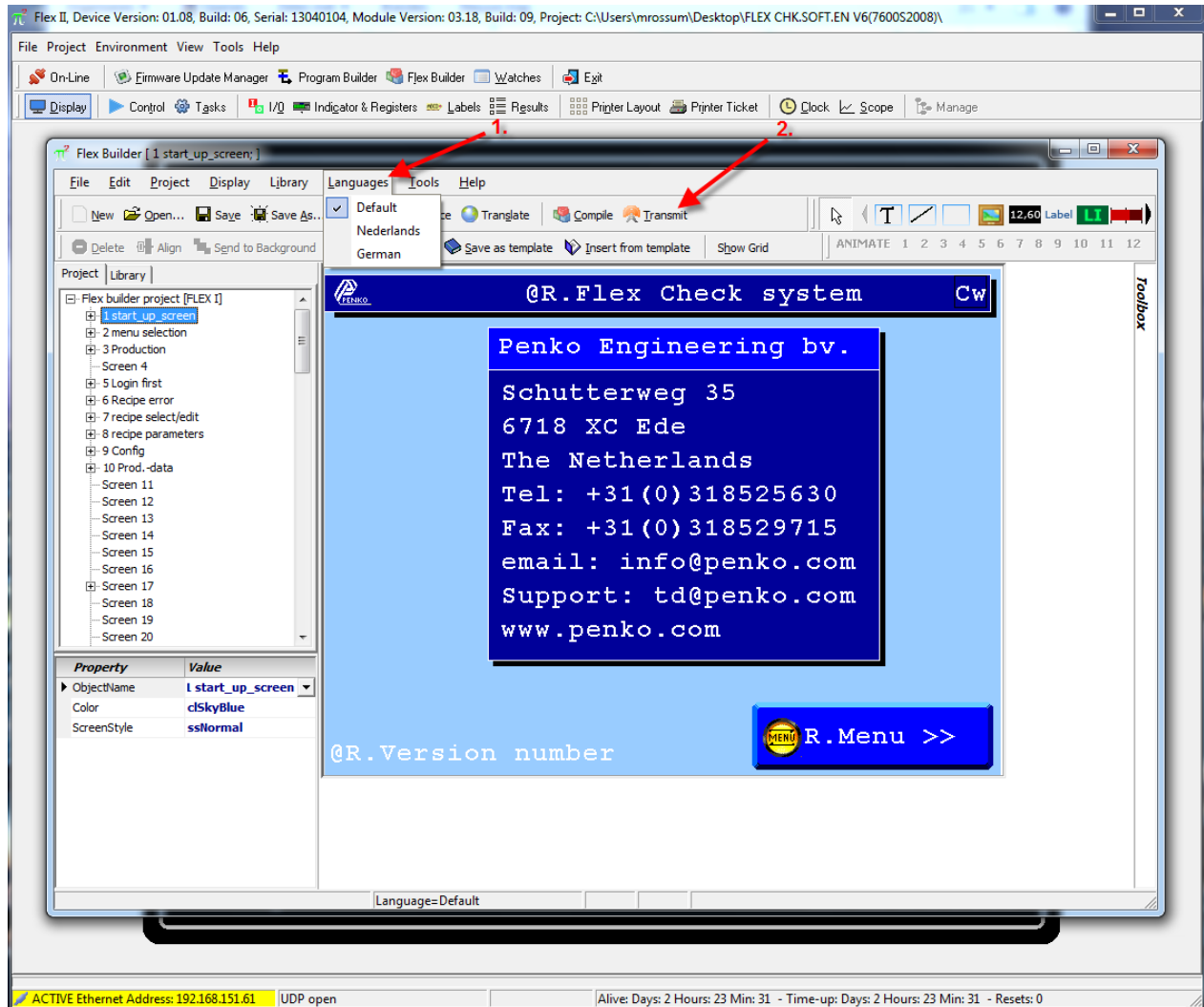


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Click on **Languages** to select the languages you want (this can only be selected if you ordered a different languages than English).

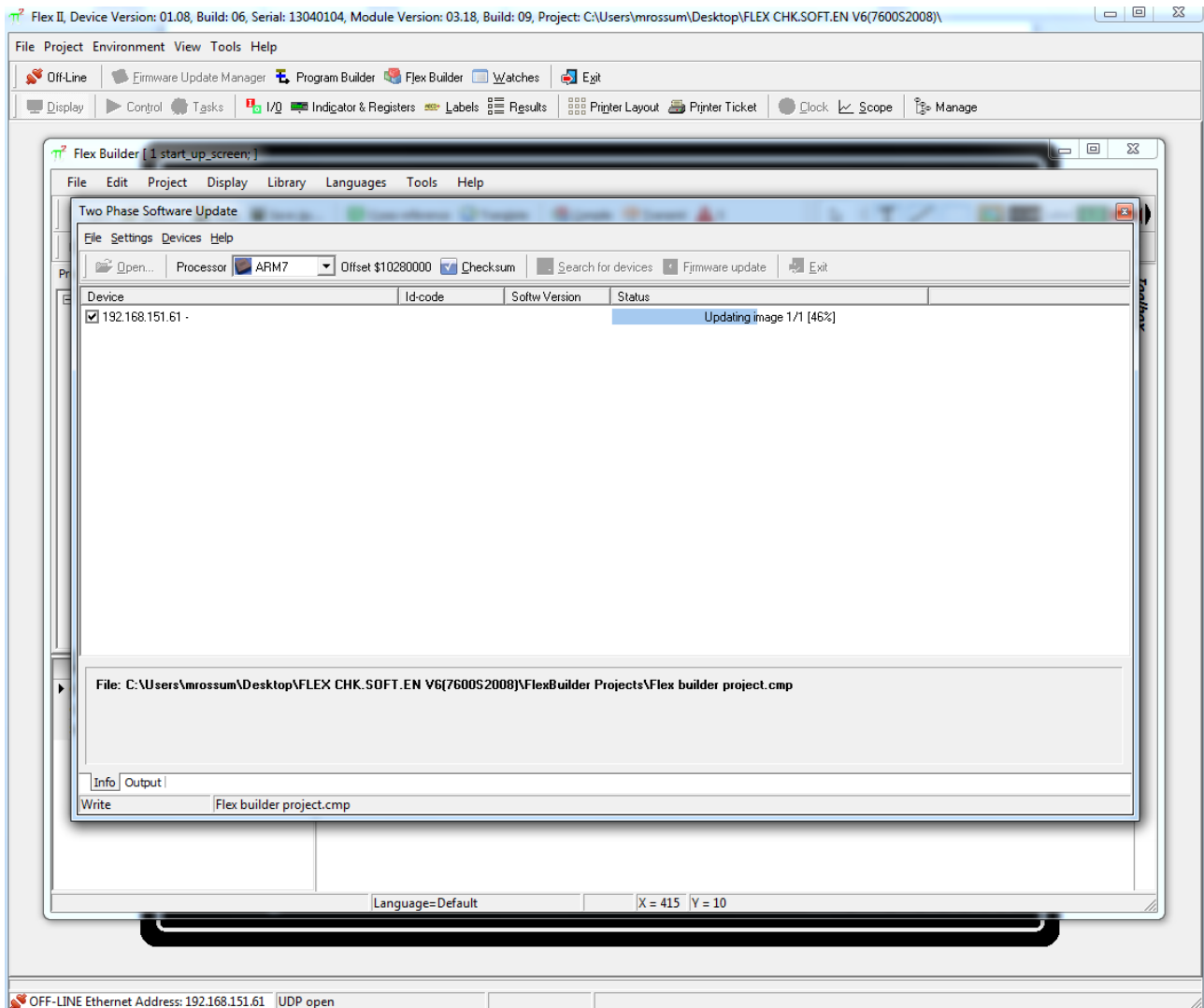
Click on **Transmit** to upload the visualization to the FLEX.



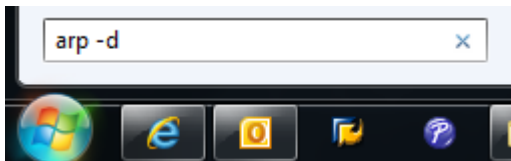
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The FLEX will reboot and start updating the image. When the updating is complete the FLEX will start up with the new visualization.



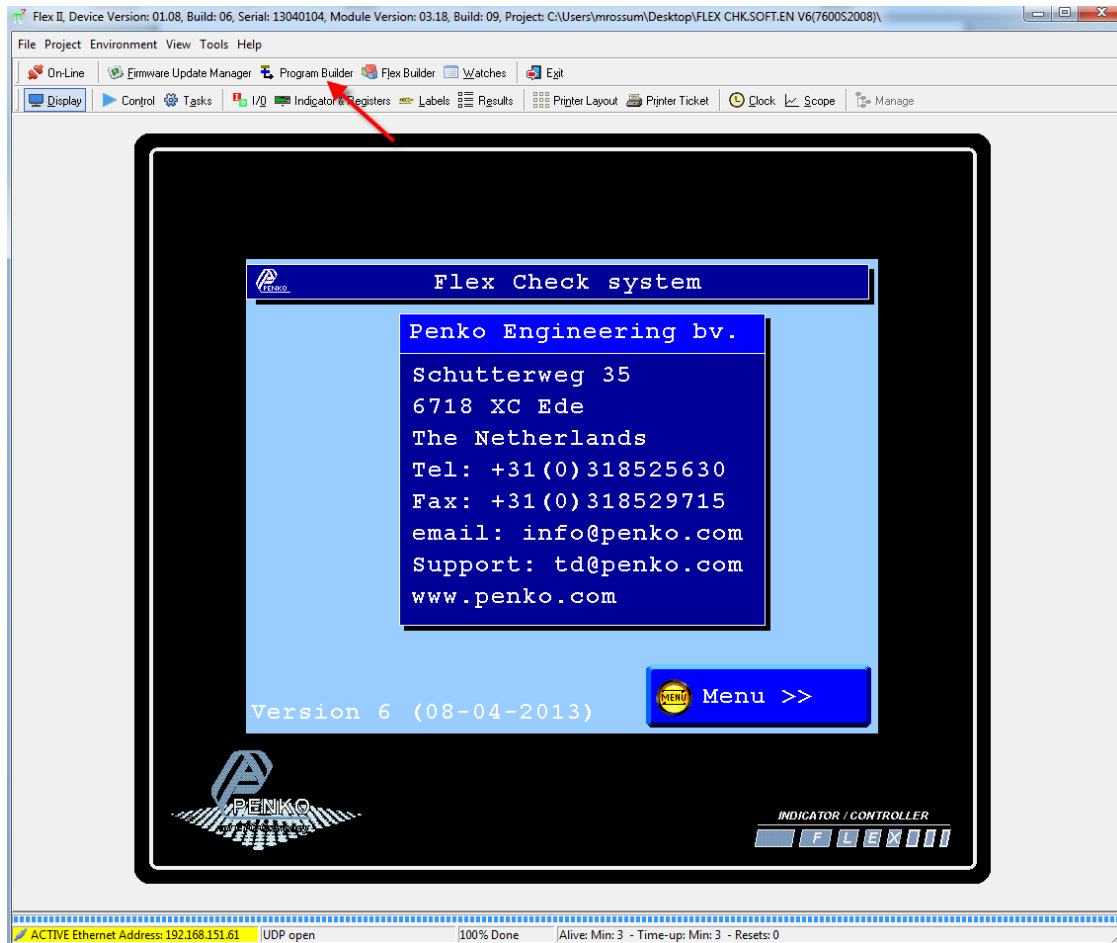
If the image will not update and the FLEX remains in boot mode, go to **Start** in Windows and type in the search bar **arp -d** and press enter (this will reset the Ethernet port).



Now click on **Transmit** in the FLEX builder again and the update will begin.

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Close the FLEX Builder and click on **Program Builder**.



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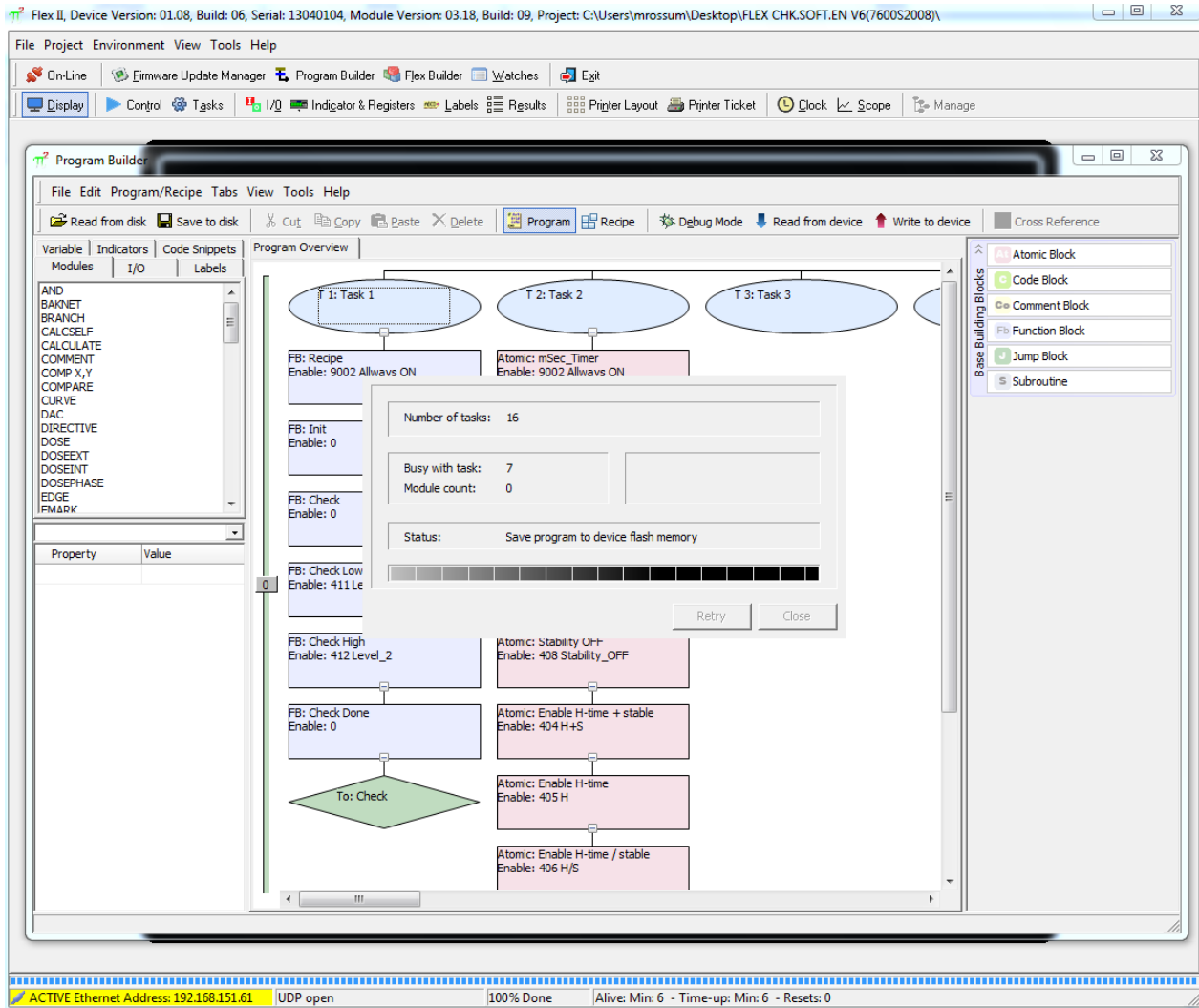
Click on **Write to Device** to upload the program to the FLEX.

The screenshot displays the Flex II software interface. The main window is titled "Program Builder" and shows a ladder logic diagram with three tasks: T 1: Task 1, T 2: Task 2, and T 3: Task 3. The diagram includes various function blocks (FB) and atomic blocks (Atomic) connected in a sequence. A red arrow points to the "Write to device" button in the top toolbar. The status bar at the bottom indicates "ACTIVE Ethernet Address: 192.168.151.61", "UDP open", "100% Done", and "Alive: Min: 4 - Time-up: Min: 4 - Resets: 0".

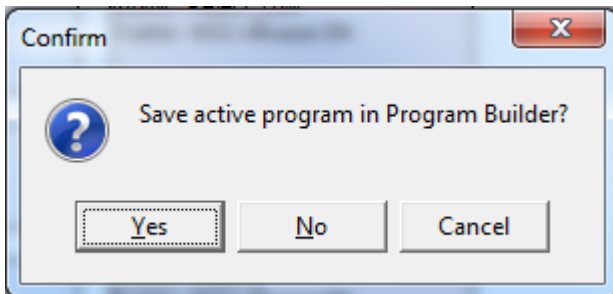
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The program will now upload to the FLEX.



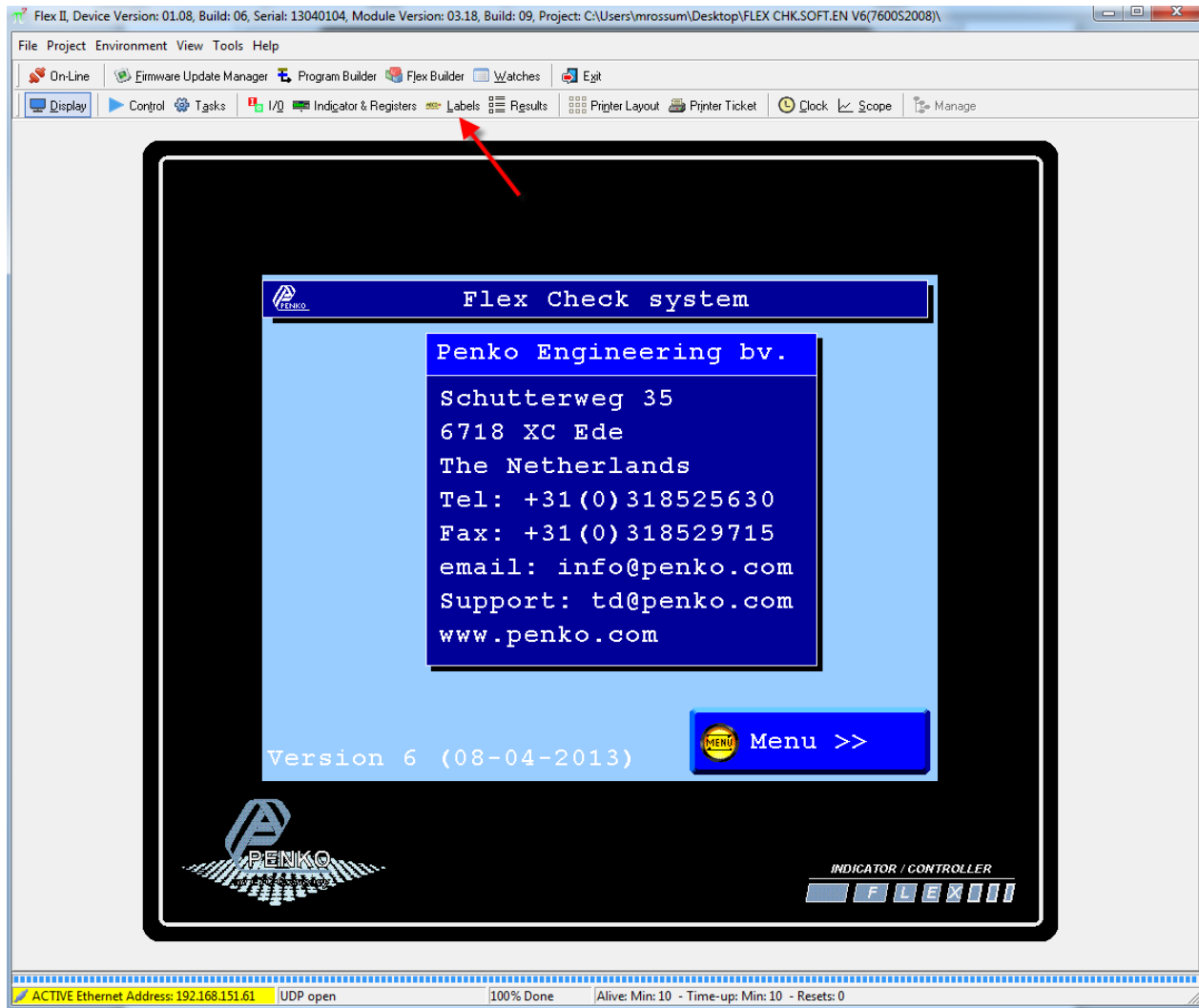
Close Program Builder and save the active program.



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Click on **Labels**.

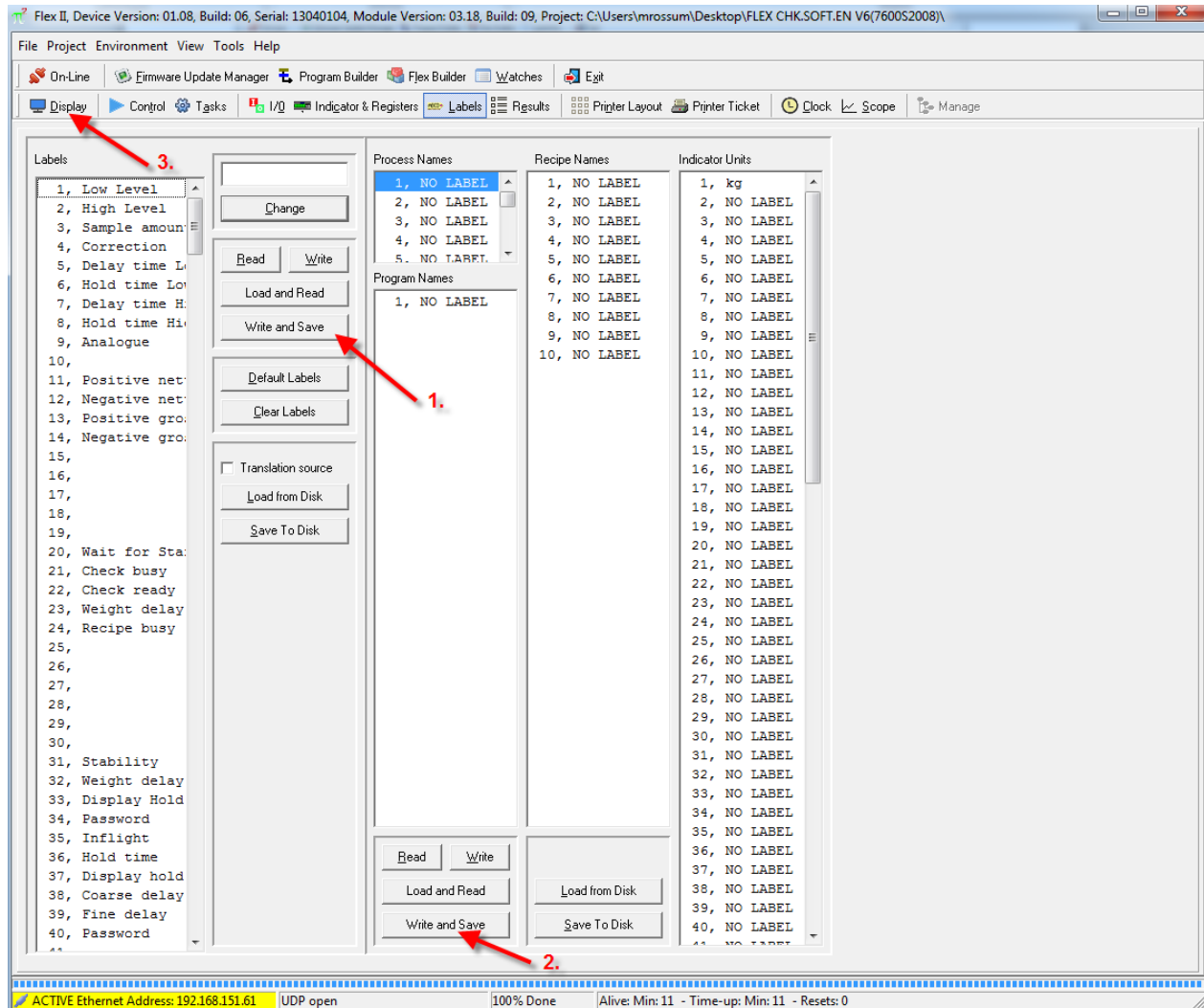


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Click on **Write and Save** (arrow 1.) and then click on **Write and Save** (arrow 2.).

Click on **Display** to return to the main screen.



Your FLEX is now updated and ready to use.



About PENKO

Our design expertise include systems for manufacturing plants, bulk weighing, check weighing, force measuring and process control. For over 35 years, PENKO Engineering B.V. has been at the forefront of development and production of high-accuracy, high-speed weighing systems and our solutions continue to help cut costs, increase ROI and drive profits for some of the largest global brands, such as Cargill, Sara Lee, Heinz, Kraft Foods and Unilever to name but a few.

Whether you are looking for a simple stand-alone weighing system or a high-speed weighing and dosing controller for a complex automated production line, PENKO has a comprehensive range of standard solutions you can rely on.

Certifications

PENKO sets high standards for its products and product performance which are tested, certified and approved by independent expert and government organizations to ensure they meet – and even – exceed metrology industry guidelines. A library of testing certificates is available for reference on:

http://penko.com/nl/publications_certificates.html



PENKO Professional Services

PENKO is committed to ensuring every system is installed, tested, programmed, commissioned and operational to client specifications. Our engineers, at our weighing center in Ede, Netherlands, as well as our distributors around the world, strive to solve most weighing-system issues within the same day. On a monthly basis PENKO offers free training classes to anyone interested in exploring modern, high-speed weighing instruments and solutions. A schedule of training sessions is found on: www.penko.com/training

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PENKO's worldwide network: Australia, Belgium, Brazil, China, Denmark, Germany, Egypt, Finland, France, India, Italy, Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Syria, Turkey, United Kingdom, South Africa, Slovakia Sweden, Switzerland and Singapore. A complete overview you will find on: www.penko.com/dealers

